

Attorney Docket No.: TRAN-P004.DIV

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE RECEIVED

Inventor(s):

Edmund J. Kelly, Robert F. Crnelik and Malcolm J. King

SEP 1 7 2003

Serial No.:

09/699,947

Group Art Unit:

Technology Center 2100

Filed:

10/30/00

Examiner:

Title:

TRANSLATED MEMORY PROTECTION APPARATUS FOR AN ADVANCED MICROPROCESSOR

Form 1449

U.S. Patent Documents

			9.0. 1 u.	elit Documento		O. Ja	Cilina
Examiner				Datamen	Class	Sub- class	Filing Date
Initial	No.	Patent No.	Date	Patentee		700	11/01/91
TU	A	5,349,658	09/20/94	O'Rourke et al.	395		01/08/93
17/	В	5,467,473	11/14/95	Kahle et al.	395	800	
ŤN	С	5,875,340	02/23/99	Quarnstrom et al.	395	733	05/31/96
Th	D	5,274,815	12/28/93	Trissel et al.	395	700	11/01/91
Th	E	6,031,992	02/29/00	Cmelik et al.	395	705	07/05/96
77	F	4,530,050	07/16/85	Fukunaga et al.	364	200	08/17/82
Tu	G	5,553,255	09/03/96	Jain et al.	395	375	04/27/95
Th	Н	4,896,257	01/23/90	Ikeda et al.	364	200	11/28/88
Tu	11	5,581,722	12/03/96	Welland	395	417	09/26/94
Tu	J	5,613,083	03/18/97	Glew et al.	395	417	09/30/94
+11,	K	5,442,766	08/15/95	Chu et al.	395	414	10/09/92
17	1	4,954,942	09/04/90	Masuda et al.	364	200	11/17/88
- Hh	T M	5,465,337	11/07/95	Kong et al.	395	417	10/05/94
Tu	N	5,526,510	06/11/96	Akkary et al.	395	460	09/30/94
Til	1 8	5,142,672	08/25/92	Johnson et al.	395	500	12/15/87
-53	ΙĎ	5,561,814	10/01/96	Glew et al.	395	833	12/22/93
-4h	1 0	5,930,832	07/27/99	Heaslip et al.	711	207	06/07/96
	R	5,958,061	09/28/99	Kelly et al.	714	1	07/24/96
$\frac{T_{i}}{T_{i}}$	S	5,805,490	09/08/98	Machida	364	784.01	07/10/99
	┪┯	5,282,274	01/25/94	Liu	395	400	05/24/90
- II -	+ +	4.481,573	11/06/84	Fukunaga et al.	364	200	11/13/8:
7h 7h	┪Ў	5,361,340	11/01/94	Kelly et al.	395	400	03/09/93
	 w	4,825,412	04/25/89	Sager et al.	365	49	04/01/88
<u> </u>	$\frac{w}{x}$	4,914,577	04/03/90	Stewart et al.	364	200	07/16/8
- 121	l ŷ	5,577,231	11/19/96	Scalzi et al.	395	500	12/06/9
\mathcal{T}_{μ}	 'z	5,097,409	03/17/92	Schwartz et al.	395	425	06/18/9
#	TÃA	5,623,628	04/22/97	Brayton et al.	395	468	03/02/9
<i>1</i> /-	BB		05/22/90	McCarthy et al.	364	200	09/02/8
77			03/23/93	Edenfield et al.	395	425	02/26/9
14			09/21/93	Watkins et al.	395	425	04/30/9
<u> 74</u>	DD		05/31/94	Stamm et al.	395	425	03/22/9
	EE		08/24/93	Kimura	395	575	07/02/9
	FF			Matsumoto et al.	371	38	11/07/8
<u> </u>	GG		07/01/86		364	200	10/11/8
1/1	HH		07/03/84	Fry et al. Joichi et al.	395	183.13	02/24/9
L Th		5,463,767	10/31/95	TOTCHI EL AL.	1333	105.15	1 32,0075

SEP 1 5 2000 A

U.S. Pat nt Documents

<u> </u>						Sub-	Filing
Examiner		Batant No.	Date	Patentee	Class	class	Date
Initial	No.	Patent No.	08/19/86	Goodrich, Jr. et al.	364	200	05/13/83
• Ти	JJ	4,607,331	08/21/84	Fry et al.	364	200	03/06/81
<u> </u>	KK	4,467,411		Taylor	340	172.5	12/13/73
TH	LL	3,863,228	01/28/75	Sefidvash et al.	395	182.03	08/15/94
TH	MM	5,517,615	05/14/96		395	185.06	09/30/94
71		5,564,111	10/08/96	Glew et al.	395	182.08	03/01/94
7)	00	5,566,298	10/15/96	Boggs et al.	395	800	03/25/94
171	PP	5,574,927	11/12/96	Scantlin	395	705	08/07/96
17/	QQ	5,721,927	02/24/98	Baraz et al.	395	500	05/14/96
TII	RR	5,768,567	06/16/98	Klein et al.	395	500	12/01/95
TII	SS	5,838,948	11/17/98	Bunza		375	11/21/94
TH	TT	5,481,685	01/02/96	Nguyen et al.	395		06/07/95
171	UU	5,644,742	07/01/97	Shen et al.	395	591	10/02/95
71	W	5,638,525	06/10/97	Hammond et al.	395	385	
711	ww		03/18/97	Willems	395	500	10/05/93
7#	XX	5,604,753	02/18/97	Bauer et al.	371	40.1	01/04/94
TH -	TYY	5,598,560	01/28/97	Benson	395	707	03/07/91
	+ zz	5,598,546	01/28/97	Blomgren	395	385	08/31/94
- <u>Fi</u>		5,574,922	11/12/96	James	395	561	06/17/94
- 71		5,546,552	08/13/96	Coon et al.	395	375	05/12/95
	CCC		06/18/96	Beardsley et al.	395	185.01	12/22/92
Th	DDC	3,320,100	10/08/96	Yamashita et al.	395	182.15	08/25/94
111	EEE	3/301/202	04/09/96	Sites	395	800	03/07/91
TH_	_i	3,30,7000	09/21/93	Grohoski	395	375	01/17/90
Th	FFF		02/12/91	Portanova et al.	364	200	03/30/90
1 +4	1 996	4,992,934	02/12/31	TOT CONTO ACT OF THE			

Foreign Patent or Published Foreign Patent Application

			Publication	Country or		Sub-	Trans	lation	Ĺ
Examiner		Document	Date	Patent Office	Class	class	Yes	No	1
Initial	No.	No.	03.05.95	EUROPE	G06F	12/08	Х		1

RECEIVED

SEP 1 7 2003

Technology Center 2100

0	IPE
EP EP	1 5 2003
ST & T	APEN AND PR

FARENSIE		Other D cum nts					
Examiner		No. 4 De Maradian					
Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication					
. •	111	Halfhill; "EMULATION: RISC'S SECRET WEAPON"; Special Report: The RISC					
TH		Decision; BYTE April 1994					
	JJJ	Andrews et al.; "MIGRATING A CISC COMPUTER FAMILY ONTO RISC VIA OBJECT CODE					
<u> </u>		TRANSLATION"; Tandem Computers, Cupertino, CA 1992 Pgs 213-222; Association of					
771		Computing Machinery 1992					
	KKK	Cmelik et al.; "SHADE: A FAST INSTRUCTIONSET SIMULATOR FOR					
TU		PARCE PRION DOOF I INC! Association for Computing Machinery 1994					
	LLL	Redichok "TALISMAN FAST AND ACCURATE MULTICOMPUTER SIMULATION";					
TH		Tak for Computer Science Cambridge MA: Association of Computing Machinery 1990					
 -	MMM	And of al. "IINCONSTRAINED SPECULATIVE EXECUTION WITH PREDICATED					
_	/	STATE BUFFERING"; System LSI Laboratory, Japan; pgs 126-13; Association of					
Th		Constitute Machinery 1995					
	NNN						
Th	NNN	Center NY; Association of Computing Machinery 1987					
	000						
	1 000	MICRO-ARCHITECTURE TRADE-OFF ANALYSIS ON ULTRASPARC-I"; 32nd					
Th		Design Automation Conference; San Francisco, CA 1995					
(' '	1	Design Automation Conference, San Francisco, OF THE MOTOROLA 68060"; Motorola Kumar et al.; "EMULATION VERIFICATION OF THE MOTOROLA 68060"; Motorola					
- m	PPP	Kumar et al.; "EMULATION VERIFICATION OF THE MICE STATES					
Th	/	Inc.; Austin, TX; 1995 IEEE					
77	QQQ	Note et al.; 'RAPID PROTOTYPING OF DSP SYSTEMS: REQUIREMENTS AND					
Th		SOLUTIONS"; Philips ITCL Belgium; 1995 IEEE					
-	RRA	i it italici co axii zione e e e e					
1 7 h	1	Sigmetrics ACM 1996; pages 68-79					
Evaminer		Date Considered / 0.7 / 0.6					

Examiner: Initial ditation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

RECEIVED

SEP 1 7 2003

Technology Center 2100